19 Jan 1996
WPNSSB

AM0NP-C

AMMETER, DC

1. GENERAL. This procurement requires either a dc milliammeter equipped with a clip-on probe or a clamp-on dc current probe with a digital multimeter as a readout device.

2. CLASSIFICATION. Type II, Class 5, Style E or EP, and Color R in accordance with MIL-T-28800 for shipboard applications.

3. MEASUREMENT MODE. The equipment shall be capable of measuring current within the ranges, accuracies, and sensitivities specified below.

3.1 Current measurement range. 50 mA to 2A. Resolution: 100 uA at 50 mA input.

3.1.1 Accuracy. ±3% of indication + 50 mA.

3.2 Frequency response. dc to 500 Hz.

3.3 Probe insulation. 300V (dc + peak ac).

3.4 Probe aperture. The probe shall accomodate conductors up to 4 mm (5/32 in) in diameter.

3.5 Display. The equipment shall be equipped with a 3 1/2, or more, digit LED or back-lit LCD display for displaying the measured current.

3.6 Transit case. If a clamp-on current probe and multimeter is supplied, a transit case is required in accordance with the Style P transit case requirements of MIL-T-28800.

4. GENERAL REQUIREMENTS.

4.1 Power source. The equipment shall be powered from one of the following sources.

4.1.1 Nominal Power. MIL-T-28800 nominal power source requirements are invoked. Maximum power consumption: 150W.

4.1.2 DC Power. The internal dc power source requirements of MIL-T-28800 are invoked. The batteries shall be of a commercially available type and shall provide 48 hours of continous operation before replacement is necessary. A battery state indicator is required in accordance with MIL-T-28800.

4.2 Weight. 10 kg (22 lb) maximum.

4.3 Lithium batteries. Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.